



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/879,828	06/11/2001	Mark W.P. Dane	51005.P204	3471
24197	7590	07/12/2005	EXAMINER	
KLARQUIST SPARKMAN, LLP 121 SW SALMON STREET SUITE 1600 PORTLAND, OR 97204			WHITMORE, STACY	
			ART UNIT	PAPER NUMBER
			2825	

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/879,828

Applicant(s)

DANE ET AL.

Examiner

Stacy A. Whitmore

Art Unit

2825

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 25 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-8, 12-19 and 23-30 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8, 12-19 and 23-30 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 01 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 4/25/05.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

## DETAILED ACTION

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1-8, 12-19, and 23-30 are rejected under 35 U.S.C. 102(b) as being anticipated by Hartoog (US Patent 5,197,015).
2. As for claims 1, 12, and 23, Hartoog discloses the invention as claimed, including method apparatus, and storage medium comprising instructions for implementing receiving input to create an interface based representation of a portion of an electronic design [col. 1, table 1; col. 1, lines 15-55];  
Generating a table based on the input, the table comprising a row, a first column, and a second column, the row corresponding to a signal in the portion of the electronic design, the first column corresponding to a first instance in the portion of the electronic design, and the second column corresponding to a second instance in the portion of the electronic design [col. 1, table 1; col. 1, lines 15-55 – examiner interprets the reference in the following manner: the table – TABLE I, the first row – row 1 and 2 – signals; the first column – any of XOR, AND, NOR - instances; second column - any of XOR, AND, NOR – instances; ];  
Adding a first notation in the table at an intersection of the row and the first column based on the input [col. 1, table 1; col. 1, lines 15-55; any of the notations such as A,B, C CNI, CB that correspond to input or output];  
Adding a second column notation in the table at an intersection of the row and the second column based on the input, the first notation and the second notation

representing an interconnection between the first instance and the second instance in the portion of the electronic design [col. 1, table 1; col. 1, lines 15-55; any of the notations such as A,B, C CNI, CB that correspond to input or output].

3. As for claims 2, 13, and 24, Hartoog discloses the interconnection between the first and second instances comprises connections between a plurality of ports [col. 1, table 1; col. 1, lines 15-55; any of the notations such as A,B, C CNI, CB that correspond to input or output, the circuits comprise a plurality of ports].

As for claims 3, 14, and 25, Hartoog discloses indicating direction between first and second notations for the interconnect of the first and second instance [col. 1, table 1; col. 1, lines 15-55; any of the notations such as A,B, C CNI, CB that correspond to input or output, comprise direction].

4. As for claims 4-8, 15-19, and 26-30, Hartoog discloses receiving additional input, adding a plurality of rows, columns, and notations, wherein the row comprises at least one cell which contains a signal name, direction comprises one of "O", "I", "B", or "U", two of the columns represent separate instances, added columns represent signal attributes for selected additional signals [col. 1, table 1; col. 1, lines 15-55].

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stacy A. Whitmore whose telephone number is (571) 272-1685. The examiner can normally be reached on Monday-Thursday, alternate Friday 6:30am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Smith can be reached on (571) 272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Stacy A Whitmore  
Primary Examiner  
Art Unit 2825

SAW

July 11, 2005

A handwritten signature in black ink, appearing to read 'SAW', located below the typed name of the examiner.